PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

International application No. International filing date (day/month/year) (Earliest) Priority Date (day/month/year) (6 April 2004 (06.04.2004))	Applicant's or agent's file reference 34785-PCT	FOR FURTHER ACTION	200	Form PCT/ISA/220 re applicable, item 5 below.
This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau. This international search report consists of a total of sheets. It is also accompanied by a copy of each prior and document cited in this report. Basis of the Report a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item. The international search was carried out on the basis of a translation of the international application firmished to this Authority (Rule 23.1(b)). With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I. Certain claims were found unsearchable (See Box No. III) Unity of invention is lacking (See Box No. III) With regard to the title, the text is approved as submitted by the applicant. the text has been established by this Authority to read as follows: 5. With regard to the drawings to the date of mailing of this international search report, submit comments to this Authority. 6. With regard to the drawings, a. the figure of the drawings to be published with the abstract is Figure No. as suggested by this Authority, because this figure better characterizes the invention. none of the figures is to be published with the abstract.			month/year)	
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	as selected by this A	uthority, because this figure be	tter characteriz	es the invention.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/11898

A CLASSIFICATION OF SUBJECT MATTER IPC(7): A61K 47/00 US CL: 424/439 According to International Patent Classification (IPC) or to both no	ational classification and IPC	
B. FIELDS SEARCHED		
Minimum documentation searched (classification system followed U.S.: 424/439	by classification symbols)	
Documentation searched other than minimum documentation to th	e extent that such documents are included in	n the fields searched
Electronic data base consulted during the international search (nar Please See Continuation Sheet	ne of data base and, where practicable, sear	ch terms used)
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category * Citation of document, with indication, where	appropriate, of the relevant passages	Relevant to claim No.
X US 2002/0193617 A1 (ULRICH et al.) 19 December	er 2002(19.12.2002), abstract; paragraphs	1-3
0034 and 0070.		4 10
Y		4-18
Y US 5,112,625 A (ZIBELL et al.) 12 May 1992 (12.0	05.1992), abstract.	4-18
Further documents are listed in the continuation of Box C.	See patent family annex.	
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the internand not in conflict with the application be principle or theory underlying the invention of the principle of the principle or theory underlying the invention of particular relevance; the claim	nt cited to understand the con med invention cannot be
"E" earlier application or patent published on or after the international filing date	considered novel or cannot be considered when the document is taken alone	to involve an inventive step
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the clai considered to involve an inventive step with one or more other such documents, s	hen the document is combined
"O" document referring to an oral disclosure, use, exhibition or other means	to a person skilled in the art	
"P" document published prior to the international filing date but later than the priority date claimed	"&" document member of the same patent fan	nily
Date of the actual completion of the international search	Date of mailing of the international search	h report
20 July 2005 (20.07,2005) Name and mailing address of the ISA/US	Authorized officer	
Mail Stop PCT, Atm: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230	Casey Haggpian Telephone No. (571) 272-1600	so fr

Form PCT/ISA/210 (second sheet) (January 2004)

	International application No.
INTERNATIONAL SEARCH REPORT	PCT/US05/11898
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Continuation of B. FIELDS SEARCHED Item 3:	
Inventor search.	the same at the sa
EAST - keywords = protein, wheat, zein, soy, coating, vacuumm, spray, freeze, ove vitamin, mineral, amino acid, drug, additive, nutriceutical, microorganism, enzyme	n, dry, water, ethanot, acetic acid, hydrochloric acid, peptide, protein, carbohydrate, antimicrobial,
vaccine, edible, foodstuff, feed, food, chewable, comestible	

Form PCT/ISA/210 (extra sheet) (January 2004)

PATENT COOPERATION TREATY

From the	TONAL SEARCE	HING ALITH	ORITY		
INTERNATIONAL SEARCHING AUTHORITY To: GREGORY J. SKOCH HOVEY WILLIAMS LLP 2405 GRAND BOULEVARD, SUITE 400 KANSAS CITY, MO 64108		PCT WRITTEN OPINION OF THE			
KANSAS	CITY, MO 641	08		INTERNATIO	ONAL SEARCHING AUTHORITY
					(PCT Rule 43bis.1)
				Date of mailing (day/month/year)	27 JUL 2008
Applicant'	s or agent's file r	eference		FOR FURTHER	
34785-PC					
Internation	nal application No).	International filing date	(day/month/year)	Priority date (day/month/year)
PCT/US0		The state of the s	06 April 2005 (06.04.20		06 April 2004 (06.04,2004)
			or both national classificat	ion and IPC	
IPC(7): Ac	61K 47/00 and US	S C1.: 424/439)		
	STATE UNIVER	RSITY RESE.	ARCH FOUNDATION		
1 This c	poinion contains i	ndications rel	ating to the following item	ıs:	
	Box No. I	Basis of the			
	Box No. II	Priority	офинон		
	Box No. III		shment of opinion with re	gard to novelty inves	ntive step and industrial applicability
	Box No. IV		ty of invention	gard to hovery, inver	inve step and made at approaching
	Box No. V			1(a)(i) with regard to	novelty, inventive step or industrial
	BOATTO. T		y; citations and explanatio		
	Box No. VI	Certain doc	uments cited		
	Box No. VII	Certain defe	ects in the international ap	plication	
	Box No. VIII	Certain obs	ervations on the internatio	nal application	
2. FUR	THER ACTIO	N			
Intern Autho	ational Prelimina prity other than th	ry Examinin	g Authority ("IPEA") ex	ccept that this does IPEA has notified th	be considered to be a written opinion of the not apply where the applicant chooses an e International Bureau under Rule 66.1bis(b) cred.
IPEA	a written reply to	gether, where		ments, before the ex-	EA, the applicant is invited to submit to the circuit on of 3 months from the date of mailing whichever expires later.
For fu	uther options, see	Form PCT/IS	SA/220.		
3. For fu	rther details, see	notes to Form	PCT/ISA/220.		
Name and	mailing address o	f the ISA/ US	,	Authorized officer	12011V1010h
N	Mail Stop PCT, Atta	: ISA/US	(Casey Hagorian	- DIMMY 1
P	.O. Box 1450			1 17 "	· /)
	dexandria, Virginia No. (703) 305-323			Telephone No. (5	71) 272-1600
	SA/237 (cover she		2004)	······································	

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US05/11898

Box No. I Basis of this opinion
1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it
was filed, unless otherwise indicated under this item.
This opinion has been established on the basis of a translation from the original language into the following language, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
 With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
a. type of material
a sequence listing
table(s) related to the sequence listing
b. format of material
in written format
in computer readable form
c. time of filing/furnishing
contained in international application as filed.
filed together with the international application in computer readable form.
furnished subsequently to this Authority for the purposes of search.
In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US05/11898

1. Statement			
Novelty (N)	Claims	4-18	YES
	Claims		NO
	au s		XID.O
Inventive step (IS)		NONE 1-18	YES NO
	Clanin		•
Industrial applicability (IA)	Claims	1-18	YES
	Claims	NONE	NONO
2. Citations and explanations:	<u></u>		
Claims 1-3 lack novelty under PCT Article 33(2) a composition useful for animal feed; cattle feed in pomprising mainly corn mean and a coating compulaims anticipated.	particular (abstract	; paragraph 0034). The composition	comprises a pelleted product
Claims 4-18 lack an inventive step under PCT Art 5,112,625). Ulrich includes the elements discusse aid composition, percentages of ingredients, or a	d in the above par	agraph. However, Ulrich does not d	isclose the method of making
pray drying (abstract). Zibell also teaches includ- tein within the coating solution (abstract). It is the inexpected results. Each aforementioned element food product. Thus, in Ulrich it would have been ingredients, and a solute as suggested by Zibell.	ing water in the ze e examiner's opinion is old and well kn	in solution prior to coating as well as on that combining the teachings of Z own in the relative art and when con	s including about 1% to 25% of ibell and Ulrich would lend abined would yield a coated
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PATENT COOPERATION TREATY

AUG 0 1 2005

From the INTERNATIONAL SEARCHING AUTHORITY To: GREGORY J. SKOCH HOVEY WILLIAMS LLP NOTIFICATION OF TRANSMITT. 2405 GRAND BOULEVARD, SUITE 400 THE INTERNATIONAL SEARCH REPORT AND KANSAS CITY, MO 64108 THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION (PCT Rule 44.1) Date of mailing (day/month/year) Applicant's or agent's file reference FOR FURTHER ACTION See paragraphs 1 and 4 below 34785-PCT International application No. International filing date PCT/US05/11898 (day/month/year) 06 April 2005 (06.04.2005) Applicant KANSAS STATE UNIVERSITY RESEARCH FOUNDATION The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith. Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46): The time limit for filing such amendments is normally two months from the date of transmittal of the international Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes 1211 Geneva 20, Switzerland, Facsimile No.: +41 22 740 14 35 For more detailed instructions, see the notes on the accompanying sheet. The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith. 3. With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that: the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices. no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made. Reminders Shortly after the expiration of 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis, 1 and 90bis, 3, respectively, before the completion of the technical preparations for international publication. The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date, Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices. In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months. See the Annex to Form PCT/IB/301 and, for details about the applicable time-kimits, Office by Office, see the PCT Applicant's Guide,

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Name and mailing address of the ISA/US
Mail Stop PCT, Atta: ISA/US

Commissioner for Patents P.O. Box 1450

Alexandria, Virginia 22313-1450

Volume II, National Chapters and the WIPO Internet site.

(See notes on accompanying sheet)

ey Hapopian

Telephone No. (571) 272-1600

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under Article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article," "Rule" and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims. description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended

During the international phase, the claims may also be amenced (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended the International Preliminary Examining Authority. The description and under Article 34 before the International Preliminary Examining Authority

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered When? as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to lile the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of How? one or more of the claims as filed

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.